AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application: Listing of Claims:

 (Currently Amended) In a system that includes a user computer that communicates with a server computer over a network, a method for mitigating a cross-site scripting attack, the method comprising:

maintaining a list of active markers at a server;

receiving a request from a user computer, wherein the request includes a <u>tirst</u> portion of safe data, and a second portion of data derived from an outside source;

determining if the request from the user computer includes a marker of active content identified in the list of active markers;

refraining from serving a response to <u>any portion of</u> the request if the request includes the marker of active content;

informing the user computer that a marker of active content <u>from the list of active</u> markers on the server has been discovered in the request; and

requesting that the user computer resubmit the <u>a</u> request and subsequently serving a response to <u>e-the</u> request resubmitted by the user computer <u>if the resubmitted request is</u> unaccompanied by an marker of active content identified in the list of active markers.

- (Original) A method as defined in claim 1, wherein receiving a request from a
 user computer further comprises receiving an HTTP request from the user computer.
- (Original) A method as defined in claim 1, wherein receiving a request from a user computer further comprises at least one of:

receiving a cookie from the user computer;

receiving a query string from the user computer;

receiving an HTTP form from the user computer; and

receiving one or more HTTP headers from the user computer.

4. (Currently Amended) A method as defined in claim 3, wherein determining if the request from the user computer includes a marker of active content further comprises evaluating only a portion—the second portion of the request that includes the data derived from an outside source.

5. (Original) A method as defined in claim 1, wherein determining if the request from the user computer includes a marker of active content further comprises at least one of:

searching the request for one or more character combinations that correspond to a script construct;

searching the request for an event that includes a script construct; and searching the request for an expression that includes a script construct.

 (Original) A method as defined in claim 1, wherein determining if the request from the user computer includes a marker of active content further comprises searching the request for a pattern that indicates an unauthorized script.

 (Previously Presented) A method as defined in claim 1, further comprising: generating an event that is logged at the server; and

encoding a response that is delivered to the user computer informing the user computer of discovery of the marker of active content.

8. (Currently Amended) In a system that includes a user computer that communicates with a server computer over a network, wherein the server computer generates dynamic content based on input from the user computer, a method for mitigating a cross-site scripting attack such that data submitted to the server computer is not sent back to the user computer as script, the method comprising:

receiving an HTTP request at a server computer, wherein the HTTP request includes a safe portion and a user input portion that includes input data that was not generated by the server computer;

evaluating the HTTP request to determine if the input data of the user input portion includes a script construct, wherein the script construct indicates that HTTP request is part of a cross-site scripting attack:

refusing to dynamically render a response to <u>any portion of</u> the HTTP request, thereby preventing the cross-site scripting attack if the input data includes a script construct:

generating a notice indicating that a script construct indicative of a cross-site scripting attack has been received; and

requesting that a user resubmit the—an_HTTP request, and subsequently dynamically rendering a response to an-the HTTP request resubmitted by the user if the resubmitted HTTP request is free from script constructs in a user input portion of the resubmitted HTTP request.

(Original) A method as defined in claim 8, wherein receiving an HTTP request at a server computer further comprises at least one of:

receiving a query string that includes at least one query string variable; receiving a cookie;

receiving one or more headers in the HTTP request; and receiving one or more form fields.

 (Original) A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises at least one of:

searching the HTTP request for one or more character combinations that correspond to a script construct;

searching the HTTP request for an event that includes a script construct; searching server variables that derive input data from another source; and searching the HTTP request for an expression that includes a script construct.

- (Original) A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises searching the input data for a script construct.
- (Original) A method as defined in claim 11, wherein searching the input data for a script construct further comprises searching for patterns associated with scripts.
 - 13. (Cancelled).
- 14. (Original) A method as defined in claim 8, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises logging an event at the server computer.
- 15. (Original) A method as defined in claim 8, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises encoding the user input including the script construct to render the script inert.
- 16. (Original) A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises evaluating the HTTP request to determine in the input data includes a marker of active content.

17. (Original) A method as defined in claim 16, wherein evaluating the HTTP request to determine in the input data includes a marker of active content further comprises determining if the marker of active content is within a particular element, wherein the marker of active content is harmful only when rendered within the particular element.

- 18. (Currently Amended) In a system that includes a user computer that communicates with a server computer over a network, wherein the server computer generates dynamic content based on input from the user computer, a computer program product for implementing a method for mitigating a cross-site scripting attack such that input data submitted to the server computer is not sent back to the user computer as script, the computer program product comprising:
 - a computer-readable medium having computer executable instructions for performing the method, the method comprising:

receiving an HTTP request at a server computer, wherein the HTTP request includes <u>a safe portion and a user input portion that includes</u> input data that was not generated by the server computer;

before performing dynamic rendering of a response to the HTTP request, evaluating the HTTP request to determine if the input data of the user input portion includes a script construct that indicates a cross-site scripting attack;

refusing to dynamically render a response to <u>any portion of</u> the HTTP request, thereby preventing the cross-site scripting attack if the input data includes a script construct;

generating a notice indicating that a script construct indicative of a crosssite scripting attack has been received; and

requesting that a user resubmit the an HTTP request, and subsequently dynamically rendering a response to a the HTTP request resubmitted by the user if the resubmitted HTTP request is free from script constructs in a user input portion of the resubmitted HTTP request.

 (Original) A computer program product as defined in claim 18, wherein receiving an HTTP request at a server computer further comprises at least one of:

receiving a query string that includes query string variables; receiving a cookie;

receiving one or more headers in the HTTP request; and receiving one or more form fields.

20. (Original) A computer program product as defined in claim 18, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises at least one of:

searching the HTTP request for one or more character combinations that correspond to a script construct;

searching the HTTP request for an event that includes a script construct; searching server variables that derive input data from another source; and searching the HTTP request for an expression that includes a script construct.

- (Original) A computer program product as defined in claim 18, wherein
 evaluating the HTTP request to determine if the input data includes a script construct further
 comprises searching the input data for a script construct.
- (Original) A computer program product as defined in claim 21, wherein searching
 the input data for a script construct further comprises searching for patterns associated with
 scripts.

23. (Cancelled).

- 24. (Original) A computer program product as defined in claim 18, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises logging an event at the server computer.
- 25. (Original) A computer program product as defined in claim 18, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises encoding the user input including the script construct to render the script inert.
- 26. (Previously Presented) A method as recited in claim 1, wherein determining if the request from the user computer includes a marker of active content comprises evaluating only user input fields of the request.

27. (Currently Amended) A method as recited in claim 1, wherein determining if the request from the user computer includes a marker of active content includes:

maintaining a list of markers of active content; and inactivating markers in the list of active markers.

- 28. (Previously Presented) A method as recited in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct comprises evaluating the HTTP request for an onclick event.
- 29. (Previously Presented) A method as recited in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct comprises evaluating the HTTP request for an element size